

Numeracy Passport help for Parents and Carers

Stage 8 Globetrotter	Examples	Can your child answer these questions?
Know by heart all the squares of numbers between $12 \times 12$ (1 and 12).	1 squared is 1 $6^2 = 36$ 11 squared is 121	Can you tell me all the square numbers between 50 and 100? A number squared is 49, what is the number?
Recognise and recall factors of numbers up to 100 and corresponding multiples of 100.	The factors of 24 are 1,2,4,2,12,3,8,4,6	Which is the missing number? $6 \times ? = 42$ The answer is 36 - which multiplication calculation could it be?
Use knowledge of place value and X facts to $10 \times 10$ to derive related $\times/\div$ facts involving decimals (eg $0.8 \times 7 = 5.6$ )	$56 \div 1 = 56$ $56 \div 2 = 28$ $56 \div 4 = 14$ $56 \div 7 = 8$ $56 \div 8 = 7$ $56 \div 10 = 5.6$ $56 \div 14 = 4$ $56 \div 16 = 3.5$ $56 \div 28 = 2$	How many different multiplication and division facts can you make using what you know about 56? What facts involving decimals can you derive? What if you started with 5.6?  You know that $42 \div 6 = 7$ . What other division and multiplication facts can you derive from this?  Which of these are incorrect? $56 \times 0.7 = 8$ $56 \div 0.7 = 80$ $0.70 \times 0.8 = 6.6$ Explain how you know using words or diagrams.
Know by heart tests of divisibility for 2, 3, 4, 5, 6, 9 and 10.	$\div 2$ . Even numbers divide by 2. $\div 3$ . If the digits add to 3, 6, or 9 then the number is divisible by 3. $\div 4$ . If the last 2 digits divide by 4 then the whole number will divide by 4. $\div 5$ . If the last digit is 5 or 0. $\div 6$ . If the number is even and the digits add to 3 or a multiple of 3. $\div 9$ If the sum of the digits divides by 9. $\div 10$ If the last digit is 0.	Which numbers divide by 2? Tell me a number that divides by 5. Does this number divide by 10? 873592740 Why?  Can you divide 9 into 815463?

You might find this website useful. <http://www.st-pauls.wilts.sch.uk/math.html>